

MILK POINT CONTROLLER

User Manual

SW Ver.	Manual Ver.	Description	Checked
7.0	1.01		GP
6.15	1.01	Detailed all menus and functions of the MPC	GP
6.14	1.00	First edition	MA

Sommario

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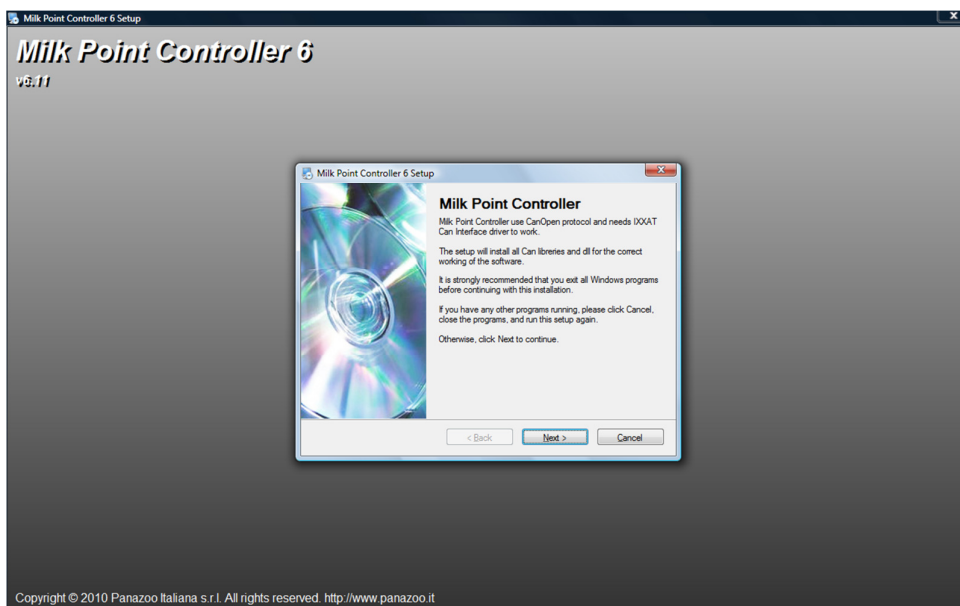
1. General description

This manual describe functionality of the application Milk Point Controller (MPC abbreviation), and the information for his utilize.

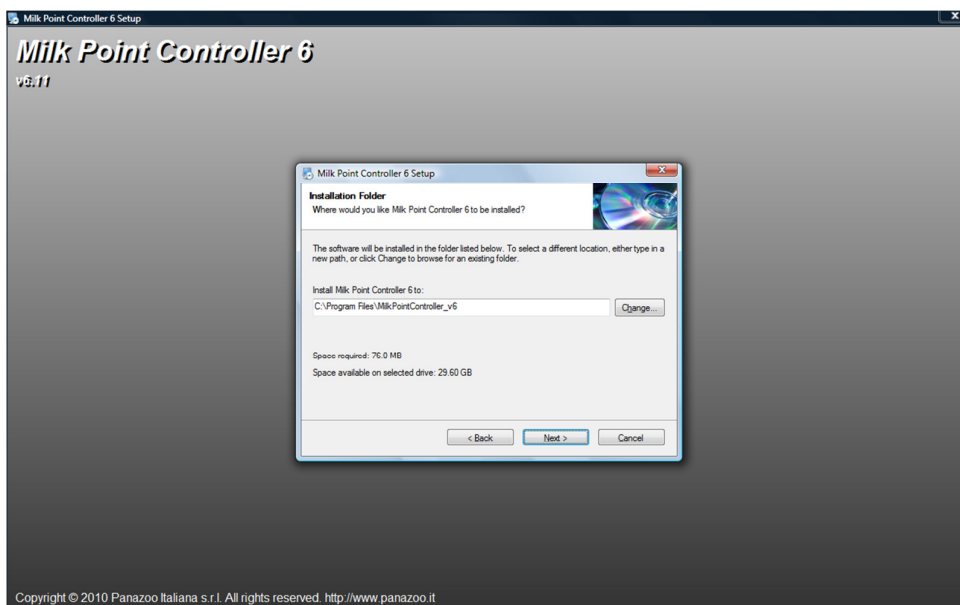
2. Software installation

For the installation of the MPC insert the MPC CD in the CD drive and run the setup.exe application, follow the indication of the Setup Wizard.

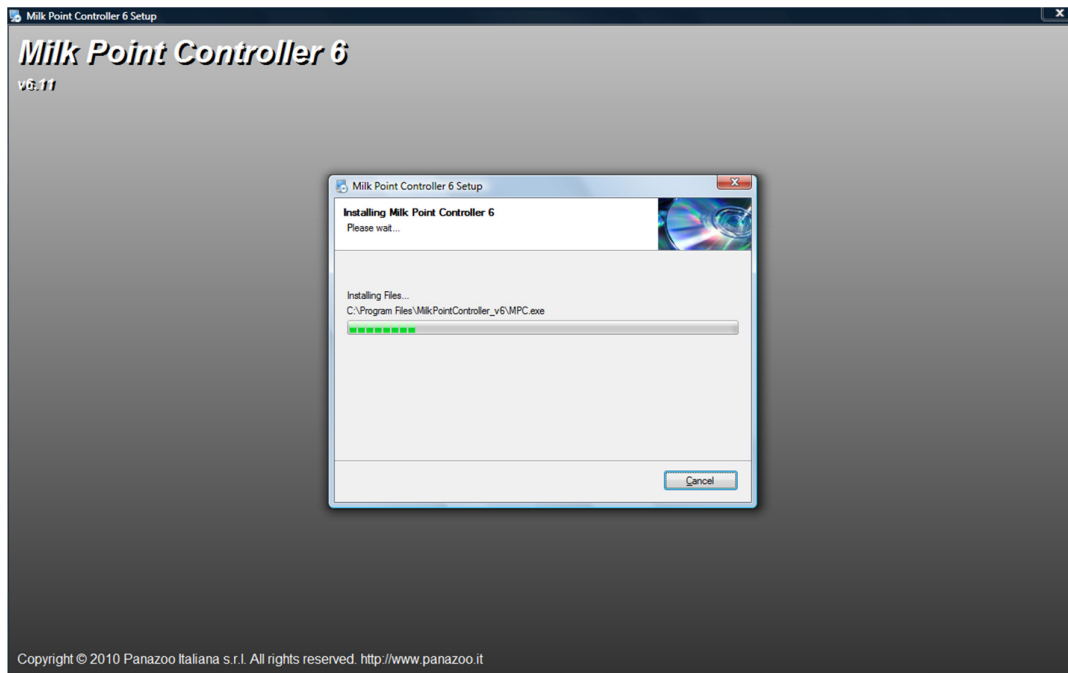
! If an old version of the MPC was installed on the PC please **BEFORE** install a new version uninstall old MPC and from Windows Control Panel remove all IXXAT software; reboot PC and run VCclean.exe application (select scan&delete option and select the drive of your PC where the MPC application was installed).



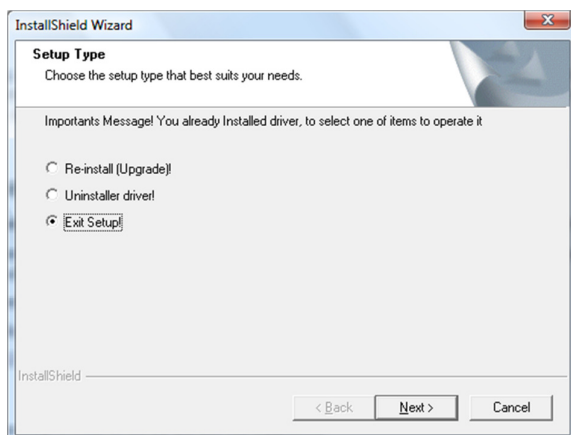
Selection of the MPC installation folder:



Waiting for the complete installation of the software.



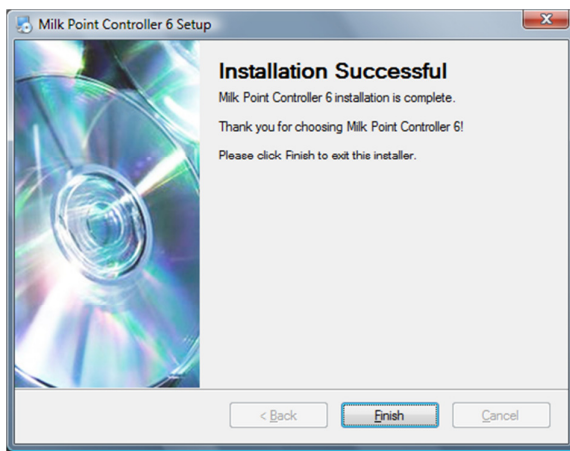
If you using a Wasserbauer Feeder machine connected to MPC. the MPC installation provides all the necessary drivers for the correct communication. If you don't use this feeder system you can bypass this drivers installation and click "Exit setup".



Now MPC must install all the Ixxat Can drivers for the correct communication to the G-ID or other Panazoo Milking station. Click next and



At the end of the Ixxat Can drivers setup, the MPC installation is completed and you must reboot your system. After reboot PC you must connect your Ixxat USB device and let the PC automatically installing the device.



2.1 Resource requirement

For install and run the MPC application please verify your PC and operating system characteristics:

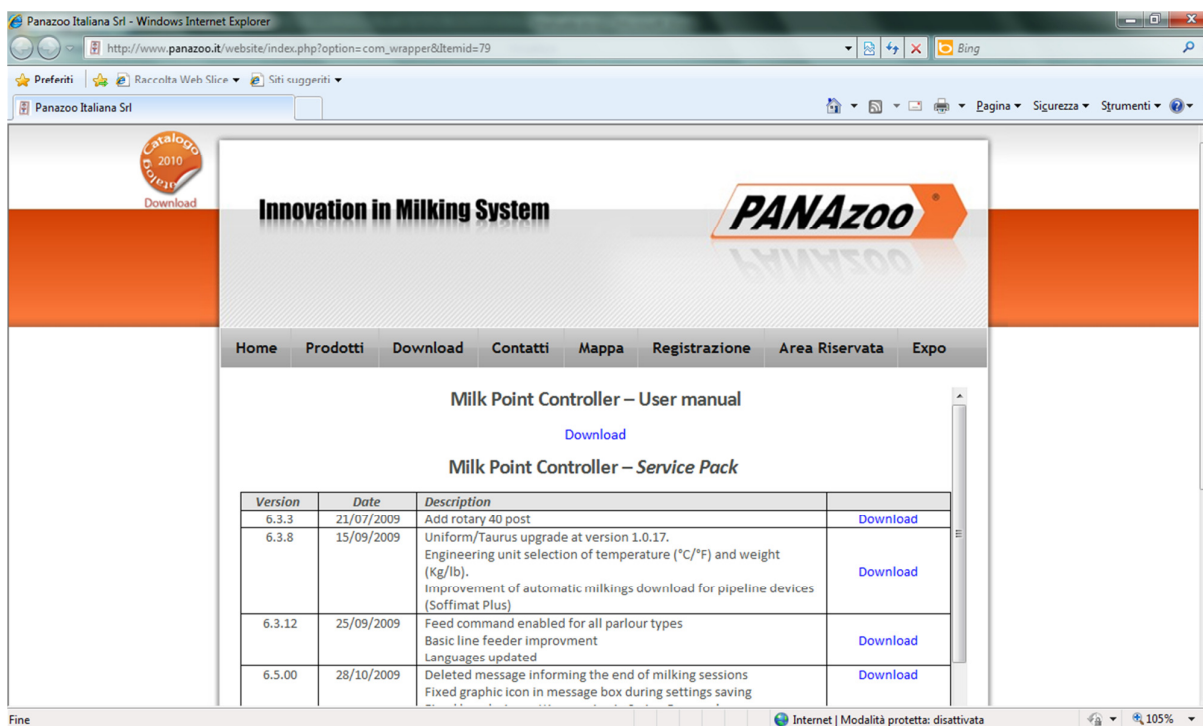
1. Operating system supported: Windows 2000, Windows XP, Windows Vista 32bit and Windows 7 32 bit;
2. Number 1 USB port available;
3. 2 Gbyte of RAM minimum;
4. CPU Pentium or highest.

! Operating system of 64 bit are not yet supported

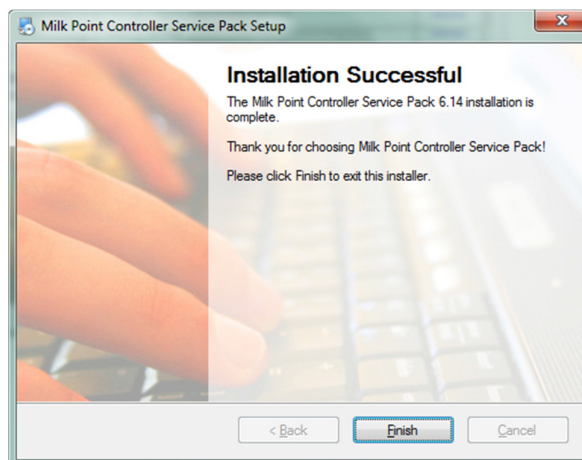
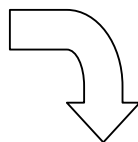
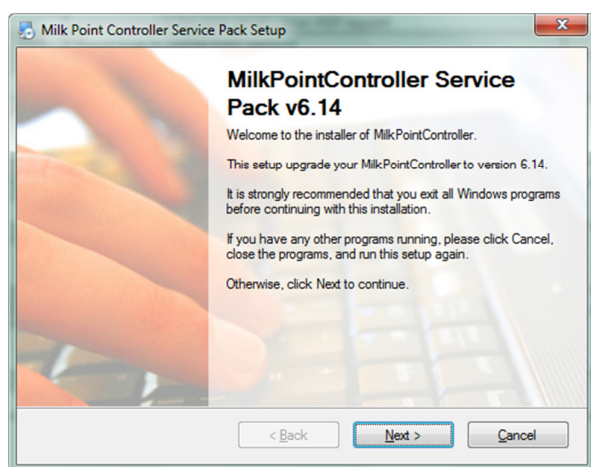
2.2 Update

For a better functionality of the MilkPointController software, please check on the Panazoo web site (<http://www.panazoo.it/mpc>) if there are service pack available, if there are download the file and run on your PC.

Panazoo MPC service pack page:



If your MPC working version is “older” then the last service pack uploaded in Panazoo Service Pack page, download it and the install. Click next and service pack will be installed on your machine.



2.3 Preliminary action

For the first activation of the system please follow this step:

1. Connect the USB card to the PC;
2. Start “MilkPointController” and activate the software with your license key number supplied with Ixxat Can Interface. At the first loading the MPC show you the license activation form. Insert all information and copy the license key in the “Software activation key” field.



The image shows a software activation dialog box titled "Software activation". It contains several input fields for user information: "Farm name", "Address", "Country", "Tel.", "email", and "Software activation key". Each field is represented by a text label followed by a rectangular input box. At the bottom left of the dialog is a graphic of a padlock with a key inserted. At the bottom right are two buttons labeled "Cancel" and "OK". The entire dialog box is enclosed in a red border.

Software activation

Farm name

Address

Country

Tel.

email

Software activation key



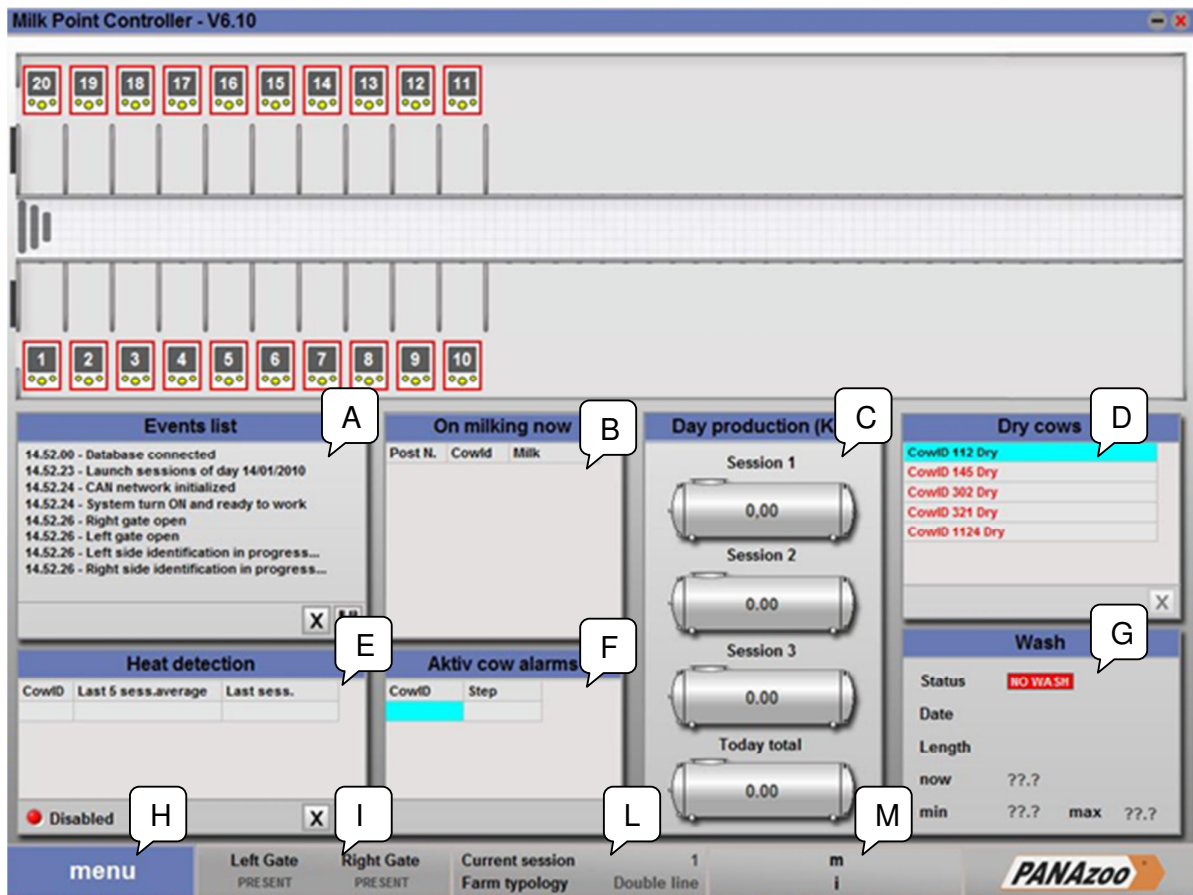
3. Configuring your farm following the configuration information in chapter 3.2;

3. View description

In this section are described all window of the application and the action that user can performe.

3.1 Main view

The main window show the status of the parlour, in the top there is a representation of the parlour with the exact number of milk place, the status of the gate and the status of the cow.



A (Event list):

A log of all the MPC and milking station activities.

B (On milking now):

A list of all the cow in "Milking status" in the farm. Every cow is detailed with "Post Nr.", "CowId" and realtime milking production. With button "📊" it's possible to switch visualization to "Chart". In this modality is show a bar chart of every cow in milking status.

C (Day production)

The total of the daily milk production divided by the number of milking sessions set in software setup.

D (Dry cows)

A list of of all the dry cows. A cow can be in dry status because of a "manual setting" in dry status in "Cow Manager" form or because are past 220 days after insemination date.

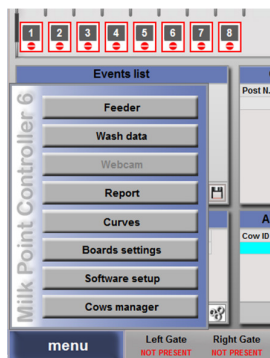
E (Heat detection)

A list of all the cows with heat detection. Heat status is detected by the software monitoring the average of the milk production in the last 5 sessions. If the production in the current session is less then 30% of the average of the last 5 sessions this cow is in heat status.

F (Aktiv cow alarms)

Work in progress...**G (Wash)**

Information about wash session; last wash session date, time, maximum water temperature, minimum water temperature and length of the wash session. Wash data are constantly saved in database and are summarized in table “Wash data” that is linked in main menu.

H (menu)**Main menu button (explained in chapter 3.1.3)**

I: gate switch connection info.

For example in a “Double Line” parlour are 2 gate switch: one for the left side and one for the right side. MPC during your loading detects the presence of these switch connected to the Antenna board or G-ID board.

L: Other MPC info.

Current session: the number of the current milking session (1 or 2 or 3, depending on your configuration farm setup)

Farm typology: the farm type setting in software setup (double line, single line, swing over etc).

Minutes to new session: from every last “STOP” milking message received by a global-id (or other milking station Panazoo) the software start a “minutes counter”. If no other “START” milking message is received from the PC in 2 hours, the MPC automatically switch to the next milking session. If the previous session was just the last session, the MPC lock any other “START” milking message.

M: farm information detail:

Farm name and farm address

3.1.1 Milk board indication



The milk board could be show in two different way:

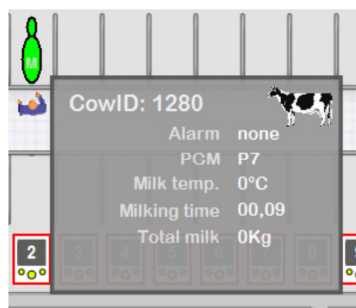
1. Position 19: If the milk place is in line and work on:
2. Position 20: If the milk plase is out of line or there is problem on the CAN connection:

3.1.2 Milk place/Cow status

The indication of the status of the place could be show in different way:



a.



b.

1. Position 17: If the milk place are free or a cow not identified are in milking ;
2. Position 18: A cow indetified is in milking (green); "M" indicates that cow is "manually" entered (not automatically identified)
3. Position 19: A cow was in stop milking status (grey);
4. Position 20: Milk place is in wash.
5. If put the mouse pointer over a cow in milk are show the milking information like in picture b, it is possible to see alarm presence, milking program, milk temperature, milking time and the milk yeld of the cow;

3.2 Software Setup

The Software setup menu permit to customize the MPC for the parlour, before to start to work the user must configure the application.

Attention at the first run of the MPC application some warning messages are showed, are not important, they are showed because the system was not configured.



Now are describe all the step needed to follow before start with the milk activities.



This information are important for specialized person that install the Panazoo milking system.

3.2.1 Farm information

This form need to insert the information of the owner of the parlour.

Software setup

Farm information

Communication

Milking parlour setup

Milking session

Feeder system

Database

Software settings

Farm name

Address

Country

Tel.

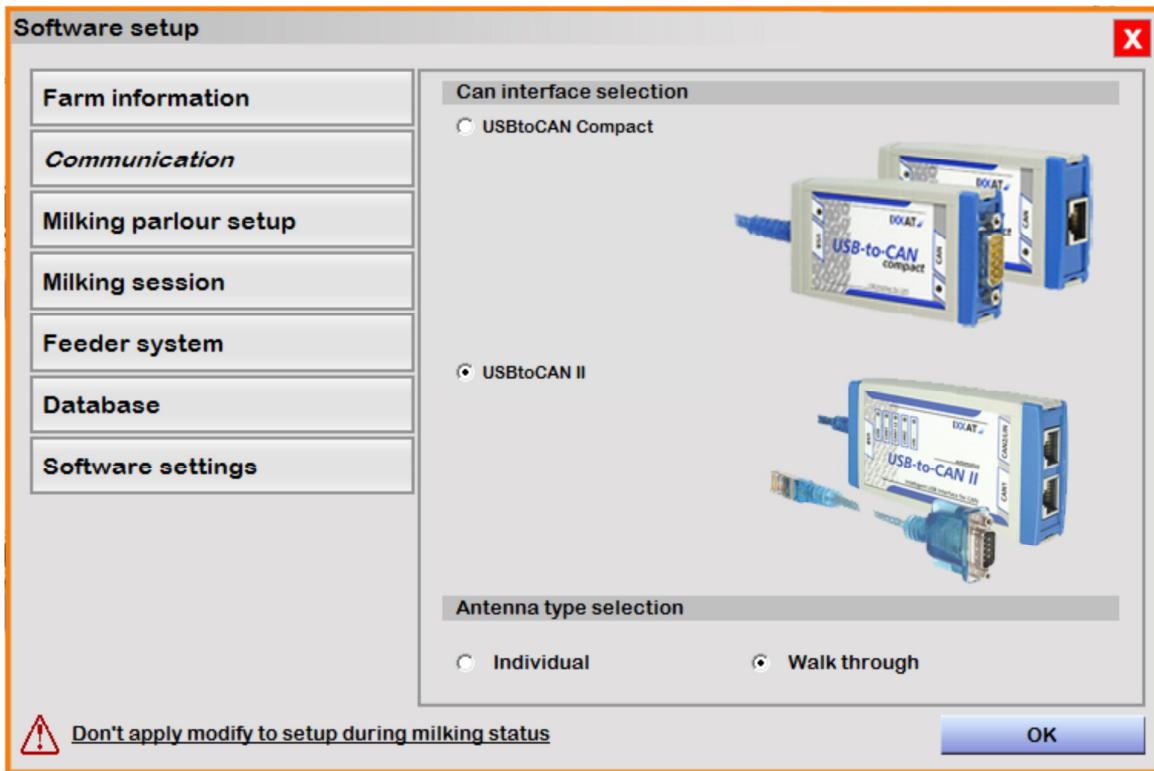
email

Don't apply modify to setup during milking status

OK

3.2.2 Communication

This form need to select the type of communication board are connected to the PC and if the identification system is with walk true gate or with one antenna for milking place (available for the goat system).



All the CAN communication interfaces are provided by Ixxat (www.ixxat.com) . Drivers are fully supplied and installed by MilkPointController in the application setup.

With UsbToCan Compact it's possible to connect up to 32 can nodes so 30 milking station and 2 antenna boards.

With UsbToCan II it's possible to connect up to 127 can nodes for each of the two "Can Line".

3.2.3 Milk parlour setup

This form need to set the type of parlour present, the number to insert in the cow standing is the number of the milking place and not the number of the milking board (this two number are different only for swing over systems); from here it is also possible select the sort gate system is presence.

The screenshot shows a software setup window titled "Software setup" with a red close button in the top right corner. On the left is a vertical sidebar with buttons for "Farm information", "Communication", "Milking parlour setup" (which is highlighted), "Milking session", "Feeder system", "Database", and "Software settings". The main area is titled "Farm typology" and contains the following settings:

- Cow standings:** A numeric input field showing "20" and a dropdown arrow.
- Parlour type:** Four radio button options: "Double line" (selected), "Single line", "Rotary", and "Swing over". Each option has a corresponding diagram: "Double line" shows two parallel rows of milking stalls; "Single line" shows one row; "Rotary" shows a semi-circular rotary milking system with numbered stalls; "Swing over" shows a row of stalls with a central aisle.
- Sort gate:** Two radio button options: "not present" and "present" (selected).

At the bottom left, there is a warning icon (a triangle with an exclamation mark) and the text "Don't apply modify to setup during milking status". At the bottom right is a blue "OK" button.

3.2.4 Milking session

This form need to set the number of the milking session for the farm and the typical time of the star sessiones.

! The Synchronize push button must be pressed AFTER the first reboot of the application and after the activation code insertion.

Software setup

Farm information

Communication

Milking parlour setup

Milking session

Feeder system

Database

Software settings

Quantity

– 2 +

Sessions timetable

Session 1 06 : 00

Session 2 14 : 00

Session 3 22 : 00

End session wait

120 minutes

Synchronize

! Milking session is valid from 00.00 to 23.59

! Don't apply modify to setup during milking status

OK

Quantity: number of milking sessions, 2 or 3.

Sessions timetable: time period of the sessions.

End session wait: when all the milking station are in IDLE status (no milking) a minutes counter start. If no other milking is registered in the minutes setting, the MPC automatically switch to the next session. If the current session is the last no other milking will be stored in database.

3.2.5 Feeder system

This form need to setup the type of the feeder system if it is present.

It is possible to select:

1. None, if no feed system are present or there is the Feed in parlour (with Global ID Feed device);
2. The Basic Feed if there are in the farm some feed station, for this modality it is possible the interval for dispence the feed the time for start the feeding.
3. Custom for custom feeding system implemented with Wasserbauer device;

It is possible also activate for the feed in parlour systems the auto dispence synchronized with milking gate closing.

Software setup

Farm information

Communication

Milking parlour setup

Milking session

Feeder system

Database

Software settings

☐ None

☒ Basic line / In-parlour feed

Start time feeder

6

Feeder distribution interval

☐ 1 hour step


☒ 5 hours step

☐ Custom line

Automatic feed distribution (In-Feed parlour)

☒ ON

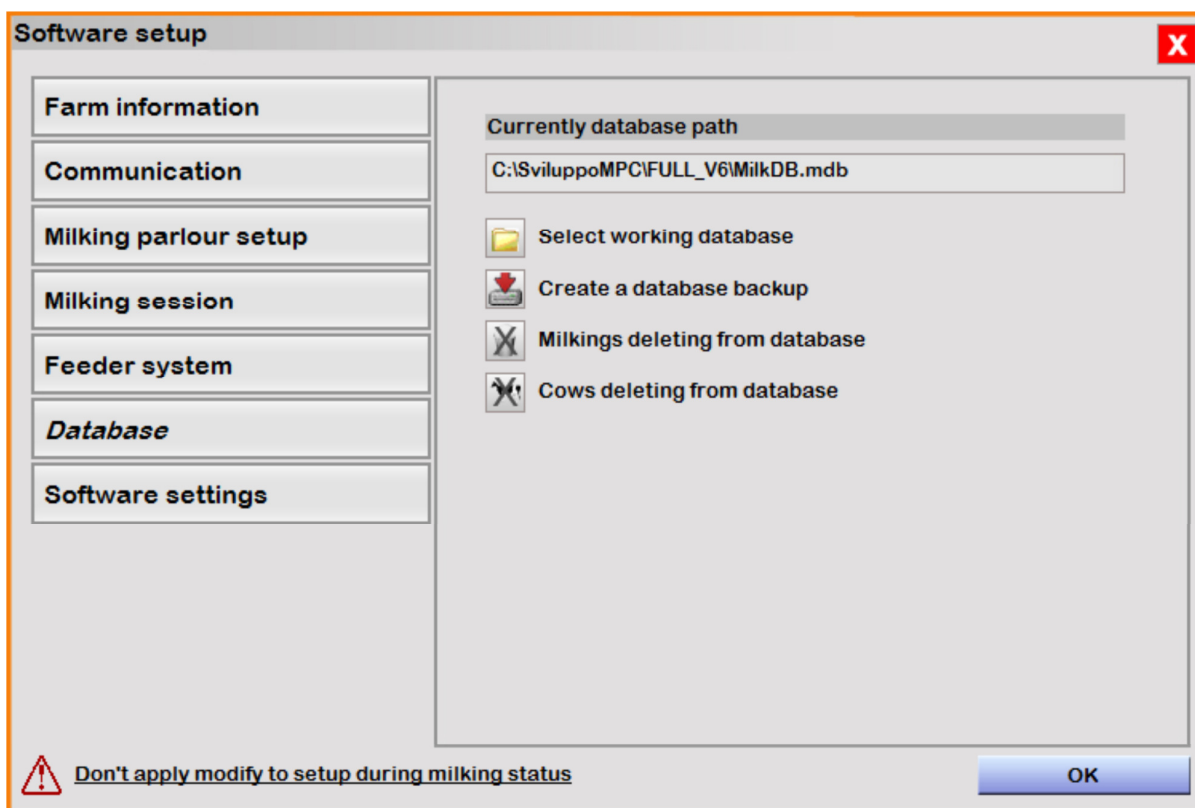
☐ OFF

 Don't apply modify to setup during milking status

OK

3.2.6 Database

This form need to select the file of the database of the milking data, if it is the first activation set the file Program>MilkPointController_V6>MilkDB.mdb that is the default.



! The other control needed for managing the database, but attention that old data could be lost, so utilize only if you know wath to do.

! It's recommended to create "periodically" backup of the working database in order to keep "light" the database for the storing of the milking.


When you create a backup of the database it's recommended to "Clear" the milking (button Milking deleting)

In the current database, so you can restart with a clean milking database that maintaining all the stored cows.

3.2.7 Software settings

This form need to check directly if any update are available, for set the language and the measure unit that

Language

Select an available language for the MPC. If MPC is not available for your language or if you want to apply some modifies to your language, click the button “”. This will run a tool “Language Editor” from which you can modify or create a new MPC language.

Engineering units

Setting of the measurements units used in the software and in the reports.

Webcam configuration

If you want to use a webcam to monitoring farm status, after you have installed all the necessary drivers to the correct working of the webcam, select it for using in the MPC. After a reboot of the software you can enabling the visualization of the webcam from the main menu (button “Webcam”).

Shift system

It is possible also set the webcam presence, and enabling the Shift functionality.

! PAY ATTENTION !

This setting MUST BE THE SAME OF THE MILKING BOARD.

3.3 Feeder

This function show all feed dispensed divided for cow, in the bottom it is possible select one cow or all cow.

Feeder database

Cow ID	Date	Hour	Food portion	Food name	Period Nr.
1282	14/01/2010	15.21	2400gr	secondo	4
1284	14/01/2010	15.20	4000gr	primo	4
1284	14/01/2010	09.19	2000gr	primo	2
1282	14/01/2010	09.19	1200gr	secondo	2

CowID

V

Refresh

OK

3.4 Wash

This function permit to show and save the data in the selected period range.

Wash data

Date	Session number	min	max	Length	Circulation
24/08/2009 16.22.47	1	17°C	17°C	00m 15s	
24/08/2009 16.27.47	1	17°C	17°C	00m 28s	
24/08/2009 16.28.46	1	17°C	17°C	00m 05s	
24/08/2009 16.34.07	1	17°C	17°C	00m 23s	
24/08/2009 16.57.59	1	16,5°C	17°C	07m 49s	
24/08/2009 17.05.48	1	16,5°C	16,5°C	00m 19s	
24/08/2009 17.16.56	1	16,5°C	16,5°C	00m 07s	
10/09/2009 11.45.33	1	16°C	16°C	00m 20s	
10/09/2009 11.46.36	1	15,5°C	16°C	00m 18s	
10/09/2009 12.12.06	1	15,5°C	16°C	00m 10s	
10/09/2009 12.15.09	1	17°C	17°C	00m 24s	
10/09/2009 12.41.13	1	16,5°C	17°C	00m 38s	
10/09/2009 14.14.50	1	17,5°C	18°C	00m 18s	
11/09/2009 6.46.46	1	12°C	12°C	00m 20s	
11/09/2009 8.31.04	1	13,5°C	17°C	07m 01s	
11/09/2009 8.57.31	1	13,5°C	66°C	16m 59s	> 40°C - 16m 11s
11/09/2009 9.31.38	1	16,5°C	20,5°C	07m 02s	
11/09/2009 11.27.50	1	15°C	15°C	00m 14s	
11/09/2009 12.53.14	1	16°C	16°C	00m 30s	
11/09/2009 13.01.50	1	16°C	16°C	03m 12s	
11/09/2009 13.03.22	1	16°C	16°C	00m 27s	
11/09/2009 17.57.19	1	19°C	19°C	00m 14s	
11/09/2009 17.59.10	1	17,5°C	19°C	01m 07s	
11/09/2009 19.50.11	1	15,5°C	24,5°C	07m 04s	
12/09/2009 6.52.43	1	12,5°C	13,5°C	01m 15s	
12/09/2009 7.00.05	1	12,5°C	13°C	00m 23s	
12/09/2009 8.32.02	1	14,5°C	24°C	07m 03s	
12/09/2009 8.55.58	1	14,5°C	66,5°C	17m 00s	> 40°C - 14m 51s
12/09/2009 9.36.22	1	16,5°C	19°C	07m 03s	
12/09/2009 17.36.34	1	17,5°C	19°C	00m 55s	
12/09/2009 19.09.53	1	15,5°C	26,5°C	05m 43s	
12/09/2009 19.12.52	1	15,5°C	16°C	02m 47s	
13/09/2009 7.10.49	1	12,5°C	12,5°C	00m 18s	
13/09/2009 8.57.34	1	14,5°C	23°C	07m 01s	
13/09/2009 9.24.01	1	14°C	66°C	17m 00s	> 40°C - 16m 05s
13/09/2009 9.58.58	1	16,5°C	21°C	07m 02s	
13/09/2009 17.31.10	1	18,5°C	19°C	02m 10s	

Table

Generate PDF

Select from08/07/2009

Chart

Options

To14/01/2010

OK

Chart



3.5 Report

This function permit to elaborate, produce, print and export the report of the production, there are some filters to select.

REPORT AND PRODUCTION ANALYSIS

Report selection

Milk production by CowID

CowID

☒ 353
☒ 354
☒ 355
☒ 356
☒ 357
☒ 1124
☒ 1279

Analysis period

Select from

06/08/2009

To

15/10/2009

Chart options

Y axis min

0

Y axis max

1000

Autoscale

☒

Results table

CowID	IDTAG	Group	Date	Time	S1 [Kg]	S2 [Kg]	S3 [Kg]	Milk total	Milk temp.	Length
9	139714974	1	01/10/2009	18.39.04	14,06	0	0	14,06	35	5m 50s
9	139714974	1	02/10/2009	7.51.31	17,89	0	0	17,89	35,5	5m 52s
9	139714974	1	02/10/2009	18.52.21	0	13,6	0	13,6	36,5	5m 13s
9	139714974	1	03/10/2009	8.01.18	17,14	0	0	17,14	35,5	5m 50s
9	139714974	1	03/10/2009	18.27.09	0	14,43	0	14,43	34,5	5m 45s
9	139714974	1	04/10/2009	18.20.45	0	15,2	0	15,2	36	5m 57s
9	139714974	1	05/10/2009	7.42.45	18,36	0	0	18,36	36	6m 36s
9	139714974	1	06/10/2009	7.27.02	18,24	0	0	18,24	35,5	6m 20s
9	139714974	1	06/10/2009	18.40.33	0	14,06	0	14,06	36	5m 17s
9	139714974	1	07/10/2009	7.27.07	17,96	0	0	17,96	34,5	6m 55s
9	139714974	1	07/10/2009	18.33.28	0	13,96	0	13,96	36	5m 48s
9	139714974	1	08/10/2009	8.02.11	17,75	0	0	17,75	35,5	6m 13s
9	139714974	1	08/10/2009	18.57.58	0	13,8	0	13,8	35,5	5m 42s
9	139714974	1	09/10/2009	8.15.16	18,98	0	0	18,98	36,5	6m 31s
9	139714974	1	09/10/2009	18.32.41	0	14,05	0	14,05	35,5	5m 22s
9	139714974	1	10/10/2009	8.25.53	19,44	0	0	19,44	36,5	6m 12s
9	139714974	1	10/10/2009	18.10.44	0	13,17	0	13,17	36	4m 59s
9	139714974	1	11/10/2009	7.40.22	16,85	0	0	16,85	36	5m 38s
9	139714974	1	11/10/2009	18.20.34	0	13,88	0	13,88	35,5	4m 46s
9	139714974	1	12/10/2009	7.48.29	17,54	0	0	17,54	36	5m 52s
9	139714974	1	12/10/2009	19.27.25	0	15,79	0	15,79	36	6m 28s
9	139714974	1	13/10/2009	8.08.25	17,33	0	0	17,33	35,5	6m 16s
9	139714974	1	13/10/2009	18.47.42	0	15,51	0	15,51	36	5m 43s

Export Excel

PDF download milk

Chart

Generate PDF

File A.I.A

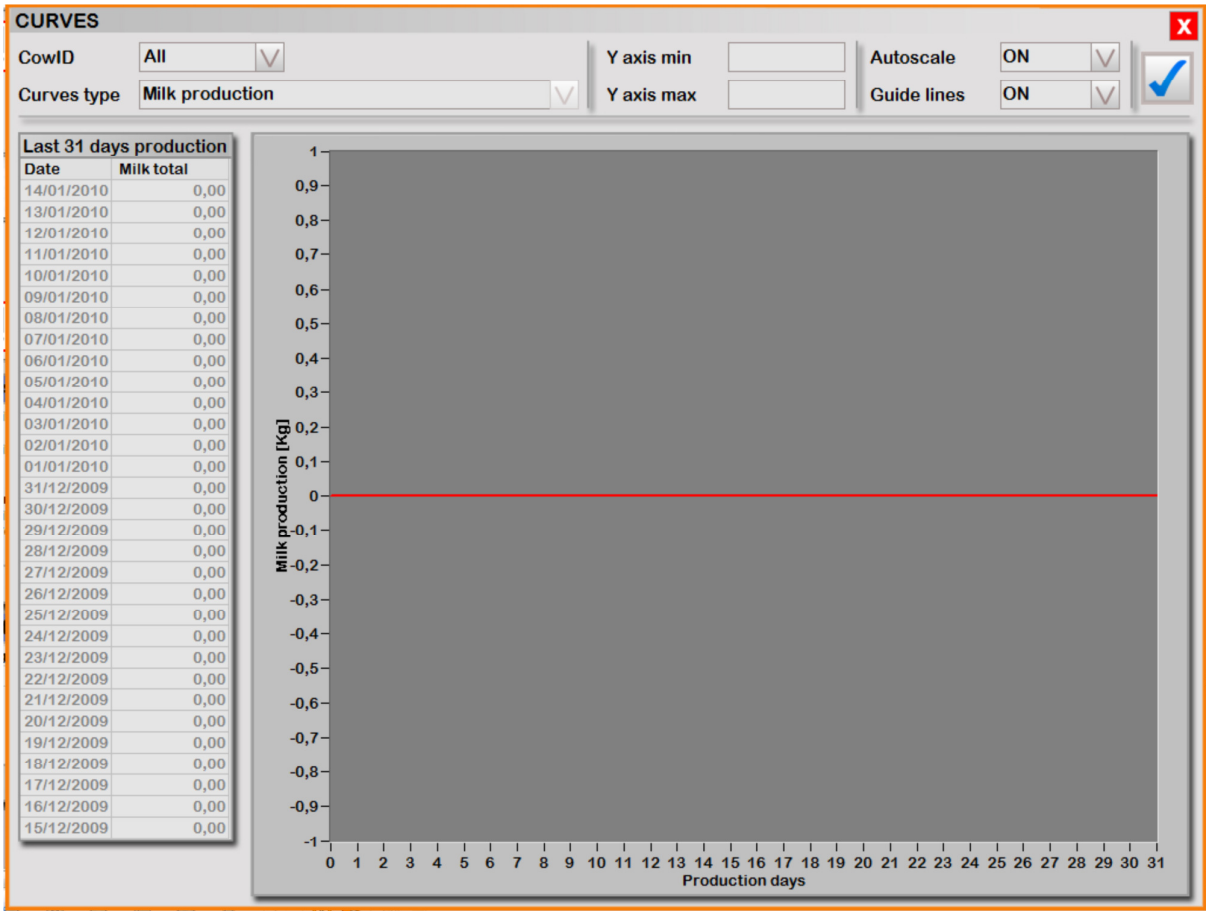
Table

Description of the available reports.

Milk Production by CowId: a report that summarizes all the “milking” of the cows selected in the CowId listbox in the selected date range. Result table shows result sorted by CowId -> Date -> Time.

3.6 Curves

This function permit to show the curves of production, temperature, ISC and milking time for the last 31 days of activity.



With “Y axis min” and “Y axis max” controls it’s possible to set the Y axis range values for the visualization. Autoscale button automatically set this values.

3.7 Board Setting

This function is accessible from the menu and with double click on the milking boards symbols, with this panel is possible to modify some parameters of the milking boards from the remote station.

BOARDS SETTINGS
X

Board node

1

Board description

GlobalID Panazoo

Parameter group

General Settings GLID

☒

Parameter list

Step	Val.	Descr.
CONTRAST	5	Set contrast value of LCD display 0-10
LANGUAGE	0	English = 0 Italian = 1 Francaise = 2
PWM_TYPE	0	Power Supply type AC or DC 0=DC 1=AC
PROGRAM_LOCK	0	Lock the milking programm in the print
MEASURE_UNIT	0	European = 0 U.S. Type = 1
ENABLE_ISC	1	Enable the conductivity control
EDGE_ISC	25	Level Conductivity from 0 to 60 - 30=300.000 scc
DELAY_ISC	3	Delay ISC control 3=300 gr.
MCMD	0	Enable Master Wash Function
MCID	20	Master Wash Source ID

OK



Clicking this button you save the parameter on the board node (milking station) selected



Clicking this button it's possible to save the parameter to "all" the milking stations connected to the CAN network

3.8 Cows Manager

COWS MANAGER

Search fields: Cow ID, IDTAG

Cow ID	ISO IDTAG	Group	Set0	ISC	Milking lock	PGM1	PGM2	PGM3	Cow name	Feed per milking
0		0	0	26	30	P1				
648		0	2	23	30	P7	P5	P9	SIMENTAL-0648	
1304		0	1	23	30	P7	P5	P9	SIMENTAL-ABASI	
1643		0	1	23	30	P7	P5	P9	HOLSTEIN-VICDAN	
2310		0	1	23	30	P7	P5	P9	SIMENTAL-ÇIGDEM	
2655		0	2	23	30	P7	P5	P9	SIMENTAL-GÜLSUM	
2657		0	2	23	30	P7	P5	P9	SIMENTAL-DILARA	
2920		0	2	23	30	P7	P5	P9	SIMENTAL-BONCUK	
2921		0	2	23	30	P7	P5	P9	SIMENTAL-YAZGULL	
2922		0	2	23	30	P7	P5	P9	SIMENTAL-NURDAN	
2923		0	2	23	30	P7	P5	P9	HOLSTEIN-BENEKLI	
4036		0	1	23	30	P7	P5	P9	HOLSTEIN-4036	
4099		0	2	23	30	P7	P5	P9	HOLSTEIN-GUZGULL	
4412		0	1	23	30	P7	P5	P9	SIMENTAL-SUKRAN	
4653		0	1	23	30	P7	P5	P9	HOLSTEIN-SUZI	
5137		0	1	23	30	P7	P5	P9	SIMENTAL-PERVIN	
6244		0	1	23	30	P7	P5	P9	SIMENTAL-CEYLAN	
7731		0	1	23	30	P7	P5	P9	HOLSTEIN-GIZEM	
8436		0	1	23	30	P7	P5	P9	MONTOFON-KASTOI	
8726		0	1	23	30	P7	P5	P9	HOLSTEIN-ZARIFE	
9046		0	1	23	30	P7	P5	P9	HOLSTEIN-GIHA	

Total cows: 21

In cow manager you can handle all your animals database. Add, modify, remove cows, add inseminations, treatments feeder data etc.

Double-click on a cow in the list for modify the configuration of a cow.

COWS MANAGER

Search fields: Cow ID, IDTAG

Scroll cows

Cow ID: 17

Total lactation prod. 760,00Kg

Milk temp. average 35,0°C

Milking length average 10min

Milking flow [Kg/min] 1,2Kg/min

Cow parameters

Milking periods

Insemination

Treatments

Feeder

Sort gate

Cow ID: 17 *

Birth date: 04/08/2005

Cow name: Cowld 17 inserted by Uniform

Status: ☒ Milking ☐ Dry ☐ Dry with lock *

Set0: 12 * Group: 1 *

ISO IDTAG: 1770349 * ISC: 30 *

Milking lock: ☐ Lock until: ☒ Always in lock

Lact. N°: 1 Feed per milking: 0

Start: 16/08/2009 Milking days: 221

Total cows: 731

In the top of the window there is a “search bar” from which is possible to search a specific animal in the database. The search can be by “Cowld” or by “IdTag”.

In the left of the window there is a “summary cow info” from which it's possible to view the “Total lactation period” (total milking amount in the current lactation), “Milk temp.average”, “Milking length average” and “Milking flow” calculated by “TotalMilk / MilkingLength”.

In the bottom left there is an indication of the total cows stored in the MPC database.

In the bottom right there are buttons functions:



Multiple cows configuration saving

Pressing this button MPC shows a window like this:

The screenshot shows a dialog box titled "Save config to all cows" with a red 'X' close button in the top right corner. The dialog has a light gray background and a white border. It contains the following elements:

- Two input fields: "Set0" with the value "25" and "ISC" with the value "30". Each field has a green checkmark icon to its right.
- A section titled "Only for Swing Over parlour" containing:
 - A "Feeder" input field with an empty checkbox to its right.
 - A "Multiply feed" input field with a spinner icon and the value "1", also with an empty checkbox to its right.
- An "OK" button at the bottom center.
- A status bar at the very bottom of the window with the text "Save config to all cows" and a small icon on the right.

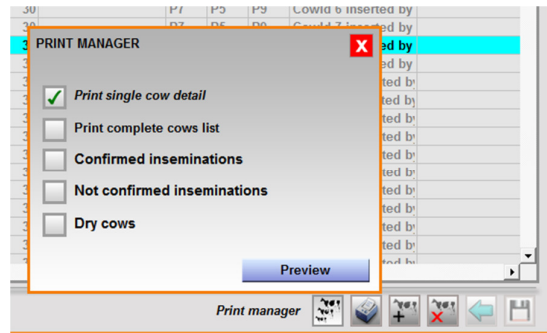
Here it's possible to set some configuration automatically to "all" the cows stored in the database.

This "common" configuration are: Set0, ISC and Feeder (only for swing over parlour)



Pressing this button a window let you choose to print one of this report:

- “Print single cow list” print a PDF report of the single cow selected in cow list. This report contain all the settings and information about the selected cow.
- “Print complete cow list” print a PDF report containing the list of all the cows stored in database
- “Confirmed inseminations” print a PDF containing a list of the confirmed cows insemination.
- “Not confirmed inseminations” print a PDF containing a list of the NOT confirmed cows inseminations.
- “Dry cows” print a PDF containing a list of the actually dry cows.



3.8.1 Cow parameters



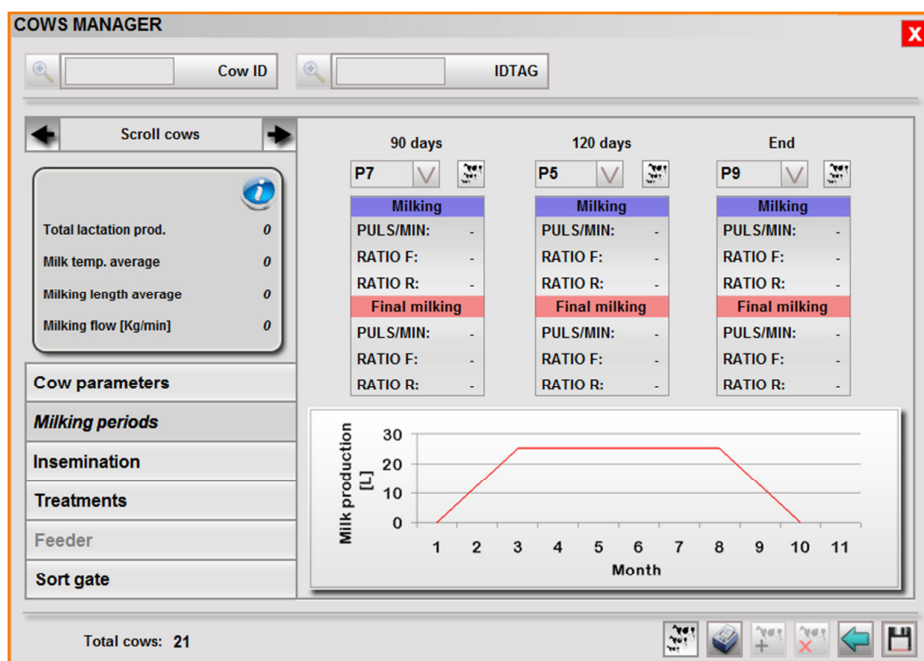
Clicking this button you can add a cow in the database with the user interface.

For each cow in database it's possible to set custom milking parameters, cow data info, feeder and many other parameters. Field with symbol “*” are obligatory for the correct storing of the cow.

- CowId: automatically calculated by adding “1” to the last cowid detected in database. Otherwise you can always change this.
- Birth date: the birth date of the cow

- Cow name: the name of the cow
- Status: milking (standard status for the cow with no lock)
dry (cow in dry status)
dry with lock (cow in dry status but during the identification the MPC send to the milking station a “LOCK” that will be visualized on the display of the milking station)
- Set0: value of parameter Set0
- ISC: value of parameter ISC
- Group: number of the cow lot
- ISO IDTAG: the idtag number associated to the cow
- Milking lock: it's possible to set a lock for a cow. In this case when the cow will be identified by the antenna, the MPC send a “COW LOCK” message to the milking station and this information is showed on the display of the milking station. If you “activate” lock this can be forever (“always in lock”) or with expiry date (“lock until”)
- Lactation Nr: the number of the current lactation. Lactation number is automatically increased at every calving.
- Start: first milking date of the current lactation. This date can be manually set or automatically by MPC at the first milking of the cow.
- Feed per milking: feed “portion”. This feed is handled directly by the milking station.
- Milking days: an indicator of the current lactation days milking

3.8.2 Milking periods



From here it's possible to set 3 custom milking program for the cow.

The 3 program are automatically applied by the MPC with this method:

First milking date → 90 days → 120 days → till the end
PGM1 *PGM2* *PGM3*



 Clicking this button it's possible to apply the milking program to all the cows stored in database.

3.8.3 Insemination

COWS MANAGER

Cow ID
 IDTAG

	Execute	Forecast birth	Birth	Bull name	Confirmed
1	29/10/2009		21/07/2009	Data from Uniform	SI

Cow ID: 2

Total lactation prod. 590,86Kg

Milk temp. average 34,9°C

Milking length average 6min

Milking flow [Kg/min] 1,4Kg/min

Cow parameters

Milking periods

Insemination

Treatments

Feeder

Sort gate

Add new
Modify
Delete

Total cows: 731

From here it's possible to handle the cow inseminations.

Clicking “Add new” MPC show you this form where you can store the insemination data.

Execute: date of the insemination

Days after ins.: days past after insemination date

Bull name: name of the bull

Forecast birth: date of the forecast birth. This date is calculated adding “280” days to the “Execute” Insemination date.

Calf born: date of the calf birth.

Confirmed: status of the insemination

COWS MANAGER

<input type="text"/>	Cow ID	<input type="text"/>	IDTAG
----------------------	--------	----------------------	-------

Scroll cows

Cow ID: 2

Total lactation prod. 590,86Kg

Milk temp. average 34,9°C

Milking length average 6min

Milking flow [Kg/min] 1,4Kg/min

- Cow parameters**
- Milking periods**
- Insemination**
- Treatments**
- Feeder**
- Sort gate**

Insemination info

Execute

Days after ins.

Bull name

Forecast birth

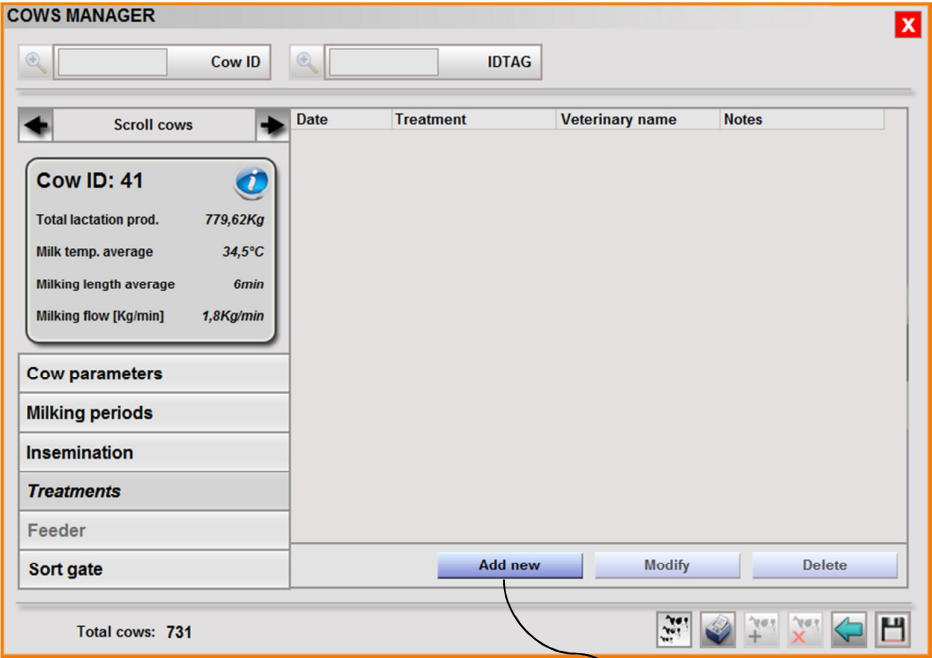
Calf born

Confirmed ☒ YES ☐ NO

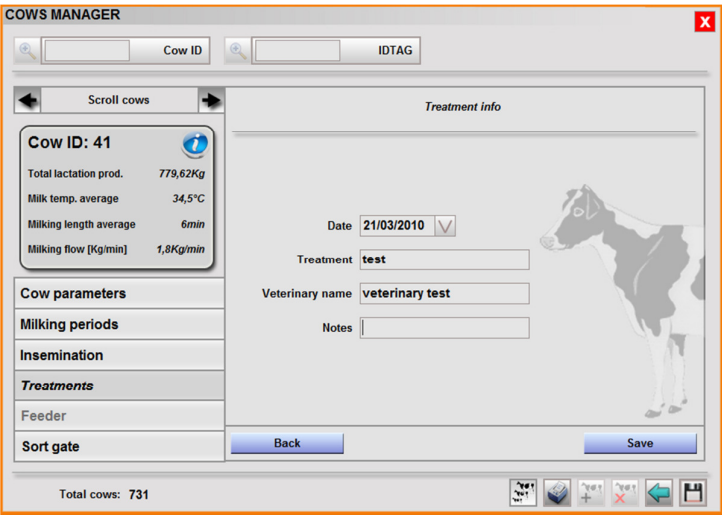
Total cows: 231

3.8.4 Treatments

From here it's possible to handle the treatments of the cow.



Date: date of the treatment
Treatment: description of the treatment
Veterinary name: the name of the veterinary
Notes: notes to included to the treatment (optional)



3.8.5 Feeder

MilkPointController provides two types of feeder system:

- Basic line: totally handled by MPC and Panazoo milking stations.
- Custom line: handled by Wasserbauer feeding machine and coordinated by MPC software.

The feeder typology can be selected in “software setup”.

Basic line

The screenshot shows the 'COWS MANAGER' software interface. At the top, there are search fields for 'Cow ID' and 'IDTAG'. Below these are tabs for 'Feed per milking 1' through '4'. The left sidebar contains a list of cow parameters: Cow ID: 10, Total lactation prod. 1033,47Kg, Milk temp. average 35,4°C, Milking length average 8min, Milking flow [Kg/min] 1,7Kg/min. Below this is a list of menu items: Cow parameters, Milking periods, Insemination, Treatments, Feeder, and Sort gate. The main area displays the 'Daily feeder distribution' table with columns for Hour, Percent (%), and Grammes. The table shows four periods: 00.00 - 05.00, 05.00 - 10.00, 10.00 - 15.00, and 15.00 - 20.00, each with a 25% percent value and 1250 grammes. There are also buttons for 'Delete food', 'Set same percent', 'Food name', 'Food test', and 'Food portion' (set to 5 Kg). The bottom status bar shows 'Total cows: 731' and various control icons.

Hour	Percent (%)	Grammes
00.00 - 05.00	25	1250
05.00 - 10.00	25	1250
10.00 - 15.00	25	1250
15.00 - 20.00	25	1250

Basic line feeder consist of 4 aliment daily distributed in different periods; this means that a cow is enabled to eat only 1 time in a period a day. This periods can be subdivided in this way:

- Once every 5 hours
- Once every 1 hour

In both case the “feeder system” work for a total of 20 hours. In the remaining 4 hours the “feeder system” is switched off.

Start hour and period selection can be set in “software setup”.

For each food it's possible to set “Food name” and “Food portion”. Food portion is automatic distributed in the day according to the “Percent %” set value. The default setting of the percent value is 25% for 5 hours period and 5% for 1 hour period distribution.

Anyway the percent values of every distribution period can be manually modify but the necessary condition is that the total amount of the percent values must be 100%.

The “Grammes” display is automatic updated at every change of the food portion according to the setting of the percent value.

3.8.6 Sort gate

The screenshot shows the 'COWS MANAGER' application window. At the top, there are search fields for 'Cow ID' and 'IDTAG'. Below these is a 'Scroll cows' button. The main area is divided into two panes. The left pane, titled 'Cow ID: 14', displays the following statistics: Total lactation prod. 597,76Kg, Milk temp. average 34,9°C, Milking length average 6min, and Milking flow [Kg/min] 1,7Kg/min. Below the statistics is a list of tabs: Cow parameters, Milking periods, Insemination, Treatments, Feeder, and Sort gate (which is currently selected). The right pane, titled 'Enable/Disable sort gate', has a checked checkbox and three radio button options: 'Always separate' (selected), 'Separate until' (with a date picker set to 'V'), and 'Separate after conductivity alarm'. Below these is a 'Separate cow in:' section with two radio button options: 'Box1' (selected) and 'Box2'. At the bottom of the window, it says 'Total cows: 731' and there is a toolbar with various icons.

Sort gate it's a "physical" gate installed in the farm from which it's possible to "separate" specific cows. This separation can be "enabled/disabled" in this tab that is the last setting of the cow manager.

There are 3 methods to separate a cow.

- Always separated – the cow will be always separated with no conditions.
- Separate until – the cow will be separated until the setting date.
- Separate after conductivity alarm – during a milking session if the milking station detect a "conductivity alarm"

A cow can be separated in 2 different destination "box".

Warranties



Panazoo Italia S.r.l. will replace at no charge for 1 year period from the date of purchase, any part which results defective in terms of material or workmanship, after checking the part on our premises in Binasco (MI) – Italy the buyer will bear all transport costs for shipping the defective materials for substitution within the terms of this warranty.

The removal of the identification label on the electronic card will invalidate the warranty conditions.

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